

- Fig. 16.* Ditto, becoming shorter, preparatory to encapsulation: *a*, contracting vesicle; *b*, hepatic globules.
Fig. 17. Ditto, encapsuled, the contracting vesicle passive, and therefore not seen: *a*, hepatic globules.
Fig. 18. Ditto, immediately after elimination: *a*, contracting vesicle; *b*, hepatic globules; *c*, posterior legs.
Fig. 19. Ditto, empty capsule after elimination of *Plasconia Charon*: *a*, elongated portion bearing the impressions of the granulated ridges, in the midst of which is represented the aperture through which the *Plasconia* escaped.

Bombay,
January 7th, 1859.

XXVII.—*Characters of some apparently undescribed Ceylon Insects.* By F. WALKER.

[Continued from p. 56.]

Fam. Sphæridiadæ.

CERCYON VICINALE. Luridum, ellipticum, capite nigro, palpis pedibusque testaceis, thoracis disco piceo, elytris subtilissime striatis. Long. $\frac{1}{2}$ lin.

Fam. Hydrophilidæ.

BEROSUS DECRESCENS. Sordide testaceus, capite æneo, thorace vitta lata guttisque duabus lateralibus æneis, elytris subtilissime striatis, punctis nonnullis elongatis nigris. Long. $1-1\frac{1}{2}$ lin.

Fam. Buprestidæ.

AGRILUS CUPREICEPS. Niger, obscurus, subtus nigro-æneus, capite cupreo, thorace subtilissime punctato, elytris subtilissime punctato-striatis basi impressis. Long $2-2\frac{1}{2}$ lin.

AGRILUS CUPREICOLLIS. Niger, fronte pedibusque anterioribus cyaneo-viridibus, vertice thorace pedibusque posticis cupreis, elytris confertissime punctato-striatis. Long. $1\frac{1}{2}$ lin.

Fam. Elateridæ.

CORYMBITES BIVITTATA. Testaceo-rufescens, capite piceo, antennis, scutello et elytrorum vittis duabus marginalibus nigris, thorace subtilissime punctato, elytrorum striis punctatis bene determinatis. Long. $3\frac{1}{2}$ lin.

AMPEDUS ACUTIFER. Niger, thorace subtilissime punctato, angulis posticis testaceis acutissimis, elytris testaceis conferte punctato-striatis, plaga apicali, sutura vittisque duabus abbreviatis nigris. Long. $2-2\frac{1}{2}$ lin.

AMPEDUS DISCICOLLIS. Luteus, antennis pedibusque testaceis, thoracis disco nigro, angulis posticis acutis, elytris conferte punctato-striatis, fasciis duabus dentatis nigris. Long. $1\frac{3}{4}-2$ lin.

Fam. Lampyridæ.

LYCUS HUMERIFER. Niger, angustus, elytris linearibus costatis

inter costas punctatis basi luteis, antennis subdilatatis corporis dimidio paullo longioribus. Long. $2\frac{1}{2}$ lin.

LYCUS PUBIPENNIS. Ater, thoracis angulis posticis productis, elytris luteis linearibus pubescentibus costatis inter costas punctatis apices versus atris, antennis latis serratis corporis dimidio valde longioribus. Long. 3 lin.

LAMPYRIS VITRIFERA. Pallide testacea, subtilissime punctata, capite nigro, antennis piceis, thoracis disco subconvexo antice vitreo, elytris sublinearibus vix costatis. Long. 4 lin.

COLPHOTIA PROMELÆNA. Straminea, sublinearis, confertissime punctata, capite, palpis, antennis, tibiis anticis intus tarsisque nigris, antennis corporis dimidio brevioribus. Long. $4\frac{3}{4}$ lin.

Fam. Melyridæ.

MALTHINUS FORTICORNIS. Ater, sublinearis, sat nitens, antennis validis basi testaceis corpore longioribus. Long. $1\frac{1}{4}$ lin.

MALTHINUS RETRACTUS. Niger, capite pedibusque testaceis, antennis corpore brevioribus basi testaceis, elytris abbreviatis basi testaceis. Long. $1\frac{1}{4}$ lin.

Fam. Diaperidæ.

TRITOMA BIFACIES. Rufa, lævis, nitens, semiglobosa, thorace maculis tribus nigris, elytris atris rufo bimaculatis, pedibus latis. Long. 2 lin. Strongylophora

TRITOMA PRÆPOSITA. Testacea, lævis, nitens, elliptica, elytris scitissime punctato-lineatis, pedibus latiusculis. Long. $2\frac{1}{2}$ lin. amblyopis

Fam. Lyttidæ.

MYLABRIS RECOGNITA. Atra, elytris dimidio fere basali fasciaque posteriore subundulata testaceis, fascia maculari anteriore maculisque duabus basalibus atris, tarsis apice tibiisque fulvis. Long. 4 lin. Decabron

Fam. Œdemeridæ.

CISTELA FALSIFICA. Pallide fusca, longi-elliptica, cano-pubescent, subtus rufescens, antennis corporis dimidio brevioribus, elytris scite punctato-lineatis. Long. 2 lin. isbel-

ALLECULA FLAVIFEMUR. Picea, longi-fusiformis, capite antico testaceo, antennis apices versus rufescentibus, thorace subsulcato confertissime punctato, elytrorum costis bene determinatis, sulcis intercostalibus punctatis, femoribus flavis, tibiis subarcuatis. Long. 6 lin. allec-

Genus SORA.

Corpus gracile. Caput subtransversum, thorace antico paullo latius. Palpi breves, articulo 3° securiformi. Antennæ filiformes, corporis dimidio paullo longiores, articulo 11° longissimo. Thorax longisubconicus. Elytra scitissime punctato-lineata. (Lagelidæ)

SORA MARGINATA. Lutescens, antennis pedibusque testaceis, elytris piceis testaceo late marginatis. Long. $3\frac{1}{2}$ lin.

Genus THACCONA.

Corpus gracile. Caput subproductum. Palpi subclavati; articulus 3^{us} subfusiformis. Antennæ filiformes, corporis dimidio non longiores; articulus 2^{us} minutus; 11^{us} lanceolatus, 10^o paullo longior. Oculi magni. Thorax subrotundatus, submarginatus, capite lator. Elytra longa, linearia. Pedes tenues.

THACCONA DIMELÆNA. Lutescens, capite piceo antice testaceo, oculis atris, palpis antennisque testaceis, thorace nitido subpunctato, elytris pubescentibus subtilissime granulatis apice nigris. Long. $3\frac{1}{2}$ lin.

Fam. Mordellidæ.

MORDELLA DEFECTIVA. Nigra, longi-subfusiformis, femoribus tibisque ferrugineis, abdomine fœm. attenuato elytra superante. Long. 2 lin.

Fam. Anthicidæ.

ANTHICUS STRICTICOLLIS. Testaceus, capite piceo, thorace ferrugineo cordato, elytris fasciis duabus (2^a apicali) nigricantibus. Long. 1 lin.

Fam. Cissidæ.

CIS CONTENDENS. Piceus, latus, crassus, subtilissime punctatus, vix nitens, thorace antice marginato inciso. Long. 1 lin.

Fam. Tomicidæ.

APATE SUBMEDIA. Nigra, scabra, capite antico fulvo-pubescente, thorace globoso, elytris apices versus tricostatis. Long. 6-8 lin.

BOSTRICHUS MUTILATUS. Niger, crassus, subcylindricus, capite fulvo-pubescente, thorace antico tuberculato, elytris conferte punctatis apice sexdentatis et oblique truncatis, femoribus rufescentibus. Long. $2\frac{1}{2}$ -3 lin.

BOSTRICHUS VERTENS. Niger, crassus, subcylindricus, antennis, elytrorum lateribus anticis pedibusque rufescentibus, thorace antico tuberculato marginato, elytris confertissime punctatis. Long. $1\frac{1}{4}$ - $1\frac{1}{2}$ lin.

BOSTRICHUS MODERATUS. Nigro-piceus, cylindricus, thorace subtilissime scabro, elytris scite lineato-punctatis, pedibus rufescentibus. Long. 1 lin.

BOSTRICHUS TESTACEUS. Testaceus, cylindricus, nitens, thorace antico conferte punctato, elytris subtilissime lineato-punctatis. Long. $\frac{3}{4}$ lin.

BOSTRICHUS EXIGUUS. Piceus, cylindricus, nitens, capite nigro, thorace antico nigro conferte punctato, elytris scitissime lineato-punctatis, pedibus rufescentibus. Long. $\frac{2}{3}$ lin.

PLATYPUS MINAX. Piceus, cylindricus, punctatus, nitens, elytris

apice quadridentatis, discis anticis rufescentibus, pectore femoribusque rufis. Long. 3 lin.

PLATYPUS SOLIDUS. Piceus, cylindricus, angustus, nitens, capite antico truncato obscuro, thorace glabro, elytris scitissime lineatis, pedibus rufescentibus. Long. $1\frac{1}{2}$ lin.

PLATYPUS LATIFINIS. Rufescens, longus, cylindricus, nitens, thorace glabro, elytris scitissime lineatis apice nigris subdilatatis abrupte truncatis, angulis exterioribus acutis. Long. 2 lin.

HYLURGUS DETERMINANS. Niger, capite thoraceque conferte punctatis, antennis tarsisque pallidis, elytris inter costas punctatis, costis bene determinatis. Long. $1\frac{3}{4}$ lin.

HYLURGUS CONCINNULUS. Niger, nitens, capite pedibusque rufescentibus, thorace glabro, elytris costatis inter costas punctatis. Long. $\frac{3}{4}$ lin.

HYLESINUS CURVIFER. Niger, robustus, obscurus, capite thoraceque confertissime punctatis, antennis pedibusque piceis, elytrorum striis bene determinatis, stria marginali subundulata. Long. $1\frac{3}{4}$ lin.

HYLESINUS DESPECTUS. Ferrugineus, obscurus, capite thoraceque confertissime punctatis, elytrorum striis bene determinatis. Long. 1 lin.

HYLESINUS? IRRESOLUTUS. Piceus, cinereo-tomentosus, antennis pedibusque rufescentibus, elytris fasciis tribus subdiffusis cinereo-tomentosis. Long. $1\frac{1}{4}$ lin.

Fam. Curculionidæ.

BRUCHUS FIGURATUS. Niger, lituris nonnullis pallide rufescentibus, thorace litura postica lanceolata nivea, elytris fascia obliqua pallide rufescente, abdomine maculis duabus subapicalibus niveis, pedibus anterioribus tarsisque posticis rufescentibus. Long. 1 lin.

BRUCHUS INCRETUS. Fusco-cinereus, thorace elytrisque cano subvittatis, abdomine lurido, pedibus anterioribus rufis. Long. 1 lin.

BRUCHUS DECRETUS. Canescens, elytris subtilissime lineatis, pedibus rufis, femoribus anticis basi, femoribus intermediis pedibusque posticis nigris. Long. $\frac{1}{2}$ lin.

EUCORYNUS COLLIGENDUS. Nigricans, punctis nonnullis albidis, antennis fascia ante clavam albida, pedibus albido fasciatis. Long. 3-4 lin.

EUCORYNUS COLLIGENS. Niger, subtus cinerascens, capite thoraceque conferte punctatis, elytris rude lineato-punctatis cinereo trifasciatis, fascia 1^a versus humeros dilatata, 2^a 3^aque apicali utrinque connexis. Long. $3\frac{3}{4}$ -5 lin.

XYLINADES INDIGNUS. Niger, robustus, subtus cinereus, capite antico rugoso, thorace tuberculato, elytris lineato-subtuberculatis cinereo substrigatis. Long. 7 lin.

XENOCERUS ANGULIFER. *Fæm.* Niger, subtus cinerascens, antennis subclavatis corporis dimidio brevioribus, capite vittis duabus obliquis cinereis antice connexis, thorace vittis tribus cinereis, elytris cinereo marginatis, lineis tribus transversis cinereis, linea 1^a obliqua bifurcata. Long. 6 lin.

XENOCERUS REVOCANS. *Mas.* Ater, capite vitta testacea, rostro longo apice dilatato, antennis corpore triplo longioribus, thorace vittis tribus testaceis, elytris testaceis sex-vittatis, vittis duabus mediis antice suturalibus postice arcuatis, vittis duabus exterioribus postice abbreviatis, vittis duabus marginalibus integris. Long. 5 lin.

ANTHRIBUS APICALIS. Niger, cinereo-tomentosus, capite thoraceque nigro substrigatis, elytris nigro guttatis apice albidis. *Mas.* Antennis corpore longioribus. *Fæm.* Antennis corporis dimidio non longioribus fascia albida. Long. 6 lin.

ARÆOSÆRUS INTANGENS. Nigro-cinereus, elytris cinereo substrigatis. Long. $1\frac{1}{2}$ – $1\frac{3}{4}$ lin.

ARÆOSÆRUS BIFOVEATUS. Ater, tibiis rufescentibus, elytris foveolis duabus anticis. Long. 1 lin.

ARRHENODES APPROXIMANS. Piceus, antennis thorace paullo brevioribus, thorace subconico, elytris rude punctato-lineatis, lituris quatuor rufis, basali et apicali angustis, duabus intermediis transversis. *Mas.* Capite antico producto foveolato subdilatato. *Fæm.* Rostro tenui cylindrico antennis brevior. Long. $8\frac{1}{2}$ lin.

ARRHENODES FACILIS. Ferrugineus, rostro piceo, thorace fascia interrupta guttata et incisa nigricante, elytris lituris suturalibus et marginalibus nigris, pedibus nigro fasciatis. Long. $2\frac{1}{2}$ lin.

CEROBATES ACICULATUS. Piceus, rostro tenui cylindrico, antennis thorace longioribus rostro vix duplo longioribus, elytris punctato-lineatis, maculis quatuor rufis, 1^a 3^a et apicali suturalibus, 2^a marginali, pedibus rufescentibus. Long. 3 lin.

CEOCEPHALUS CAVUS. Piceus, angustus, attenuatus, subcylindricus, thorace late sulcato, elytris striatis apud latera punctatis. *Mas.* Rostro antennis vix duplo longiore, apice subdilatato. *Fæm.* Rostro antennis longiore, apice tenui. Long. $8\frac{1}{2}$ –11 lin.

NEMOCEPHALUS PLANICOLLIS. *Mas.* Piceus, angustus, subcylindricus, rostro antennis brevior basi sulcato, lateribus subtuberculatis, apice subdilatato, thorace postico plano sulcato, elytris striatis rufo quadrimaculatis, macula 1^a basali attenuata, 2^a 4^aque parvis, 3^a transversa. Long. 9–10 lin.

NEMOCEPHALUS SPINIROSTRIS. *Mas.* Piceus, rostro sulcato tuberculato apice subdilatato et bispinoso, antennis rostro vix duplo longioribus, thorace convexo, elytris rude punctato-lineatis rufo quadrimaculatis, macula 1^a basali elongata, 2^a marginali, 3^a transversa. Long. 11–12 lin.

APODERUS SCITULUS. Pallide rufus, nitens, glaber, capite thorace-

que unilineatis, capite longi-obconico elytris brevioribus, thorace conico elytris duplo brevioribus, sulco antico transverso, elytris scite punctato-lineatis antice impressis. Long. $2\frac{1}{4}$ lin.

RHYNCHITES SUFFUNDENS. *Æneo-viridis*, rostro brevi, thorace punctatissimo, elytris punctato-lineatis nigro-cyaneis basi *æneo-viridibus*. Long. $1\frac{1}{2}$ lin.

RHYNCHITES RESTITUENS. *Æneus*, subtus niger, rostro brevi, thorace punctatissimo, elytris punctato-lineatis. Long. 2 lin.

APION CINGALENSE. *Ferrugineo-piceum*, rostro elytris brevioribus, antennis testaceis clava nigra, pedibus testaceis, elytris striatis. Long. $1\frac{1}{4}$ lin.

STROPHOSOMUS SUTURALIS. *Nigricans*, capite thoraceque sulcatis, antennis capite longioribus, thoracis lateribus canis, elytris canis punctato-lineatis, vittis duabus cano punctatis suturaque nigricantibus. Long. $2\frac{3}{4}$ lin.

PIAZOMIAS ÆQUALIS. *Viridis*, subtus purpureo-cupreus disco viridi, capite thoraceque subsulcatis, capite purpurascens, thorace punctato vitta purpurascens, elytris punctato-lineatis, sutura marginem apices versus purpurascens. Long. $2\frac{1}{2}$ – $3\frac{1}{2}$ lin.

ASTYCUS EBENINUS. *Niger*, subtus purpureo-cupreus disco viridi, capite tricarinato, thorace rude punctato non sulcato, elytris punctato-lineatis. Long. $3\frac{1}{2}$ lin.

ASTYCUS IMMUNIS. *Niger*, viridi aureoque scintillans, subtus *cæneo-viridis*, capite thoraceque subsulcatis, elytris punctato-lineatis. Long. 2– $2\frac{1}{2}$ lin.

CLEONUS INDUCENS. *Niger*, cinereo ex parte subpubescens, capite tricarinato subruguloso, thorace ruguloso postice subtuberculato, elytris rude punctato-lineatis fascia postica inæquali late interrupta cana. Long. 6 lin.

MYLLOCERUS SPURCATUS. *Fuscescente-tomentosus*, capite antico sulcato, ore nigro, thorace subtilissime punctato, elytris punctato-lineatis. Long. $2\frac{1}{2}$ lin.

MYLLOCERUS RETRAHENS. *Piceus*, cano ex parte tomentosus, capite cano sulcato, thorace rude punctato, elytris punctato-lineatis. Long. $1\frac{3}{4}$ lin.

MYLLOCERUS POSTICUS. *Fuscescens*, cano subnebulosus, nigricante subnotatus, thorace punctato, elytris punctato-lineatis fascia postica inæquali albida. Long. $1\frac{3}{4}$ – $2\frac{1}{4}$ lin.

PHYLLOBIUS MIMICUS. *Longi-ovatus*, squamis viridibus densissimis ornatus, thorace conferte punctato, elytris subtilissime punctato-lineatis, pedibus fulvis. Long. $1\frac{2}{3}$ lin.

LIXUS NEBULIFASCIATUS. *Niger*, longi-fusiformis, capite thoracis longitudine, thorace punctato linea lateribusque cinereis, elytris punctato-lineatis, fasciis quatuor cinereo-tomentosis, fascia 1^a perobliqua, 2^a abbreviata, 3^a obliqua, 4^a apicali. Long. $5\frac{1}{2}$ lin.

ALCIDES OBLIQUUS. Ater, longi-subfusiformis, rostro subtiliter punctato thoracis longitudine subtus apicem versus testaceo, thorace scabro vittis duabus lateralibus sat latis unaque dorsali tenui testaceis, elytris rude lineato-punctatis, vittis duabus testaceis, interiore latissime interrupta, exteriori oblique interrupta postice furcata. Long. 5 lin.

ALCIDES TRANSVERSUS. Niger, fusiformis, rostro punctato thoracis vix longitudine, thorace scabro vittis quinque albidis, elytris rude lineato-punctatis, maculis sex anticis fascia interrupta posteriore liturisque duabus angulatis apicalibus albidis. Long. 4 lin.

ALCIDES CLAUSUS. Niger, sublinearis, rostro subpunctato thorace paullo longiore, thorace scabro vittis tribus testaceis, elytris piceis punctato-striatis, vittis duabus anterioribus postice connexis fascisque duabus posterioribus interruptis testaceis. Long. $3\frac{1}{2}$ lin.

APOTOMORHINUS ALBO-ATER. Ater, rostro gracili nitente elytris vix brevior, thorace scitissime punctato maculis duabus posticis magnis lateralibus albis, abdomine albo, elytris scite punctato-lineatis fascia apiceque albis. Long. $2\frac{1}{2}$ lin.

APOTOMORHINUS SIGNATUS. Ater, rostro elytris brevior, thorace scite punctato strigis duabus posticis lateralibus albis, elytris scite lineatis, strigis sex scutelloque albis. Long. $1\frac{3}{4}$ lin.

CRYPTORHYNCHUS INEFFECTUS. Longi-subellipticus, testaceo-cinerascente-tomentosus, nigro-setosulus, rostro brevi nigro, thorace conferte punctato, vitta albida, elytris scabro-striatis. Long. $3\frac{1}{2}$ lin.

CRYPTORHYNCHUS? ASSIMILANS. Subfusiformis, fusciscente-tomentosus, rostro gracili nigro nitente, thorace subcarinato rude punctato disco nigricante, elytris nigro notatis albido variis rude punctato-lineatis. Long. 5 lin.

CRYPTORHYNCHUS NOTABILIS. Fusciscens, angustus, linearis, rostro nigro brevi tenui nitente, thorace confertissime punctato, elytris rude punctato-lineatis, sutura nigra. *Var.* Thorace vitta albida antice abbreviata, elytris fascia postica albida. Long. $3\frac{1}{2}$ –4 lin.

CRYPTORHYNCHUS DECLARATUS. Ferrugineus, subfusiformis, rostro nigro nitente sat tenui coxas intermedias attingente, thorace rude punctato, elytris rude punctato-lineatis, fasciis quatuor inæqualibus, duabus albis duabusque nigris, pedibus albis, femoribus posticis tibiisque nigro-cinctis. Long. 5 lin.

CRYPTORHYNCHUS VEXATUS. Ferrugineo-nigricans, subfusiformis, rostro brevi crasso punctato apice nitente, thorace rude punctato, elytris tuberculatis rude punctato-lineatis fascia postica albida. Long. 5 lin.

DESMIDOPHORUS COMMUNICANS. Ferrugineus, crassus, rostro nigro crasso breviusculo quadrangulato punctato, thorace tuberculato maculis duabus posticis lateralibus albis, elytris valde convexis

rude tuberculatis, plagis duabus basalibus lateralibus fasciaque postica albis, femoribus posterioribus apice albidis. Long. $3-3\frac{3}{4}$ lin.

DESMIDOPHORUS STRENUUS. Niger, crassus, rostro crasso brevi rude punctato, thorace scabro, elytris fasciculatis scabro-striatis valde convexis, pedibus testaceo-pubescentibus. Long. 5 lin.

DESMIDOPHORUS INEXPERTUS. Ferrugineus, brevis, subovatus, rostro nigro brevi crasso multicarinato, thorace subtuberculato, elytris tuberculato-striatis fascia tenui albida. Long. $2\frac{3}{4}$ lin.

[To be continued.]

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XXVIII.—*Descriptions of new Helicidæ contained in the Darjiling Collections of Messrs. W. T. and H. F. Blanford.* By W. H. BENSON, Esq.

1. *Helix macropleuris*, nobis, n. s.

Testa subaperte umbilicata, attenuato-pyramidata, oblique minute arcuato-striata, superne costis remotis elevatis arcuatis munita, decorticata albida, nitidula; spira pyramidali, superne attenuata, apice papillari, papilla læviori, sutura carinato-marginata; anfractibus 8 convexiusculis, ultimo non descendente, filoso-carinato, subtus planulato, versus aperturam convexiusculo, circa umbilicum profundissimum, anguste perspectivum, angulato; apertura obliqua?, transversa, quadrata, peristomate tenui, recto, margine columellari lato, expansiusculo.

Diam. major 5, minor $4\frac{1}{2}$, long. $5\frac{1}{2}$ mill.

Habitat in valle Rungun, prope Darjiling, rarissime.

This shell is an exaggeration of the *Bascauda* type of the Khasia Hills, with a more remote costulation and lengthened attenuate spire. The aperture of the single dead specimen collected by Mr. W. T. Blanford is not in the best condition.

2. *Helix Corys*, nobis, n. s.

Testa perforata, elongato-pyramidali, oblique confertim minutissime costulato-striata, albida, non nitente; spira anguste pyramidali, apice obtusiusculo, sutura impressa; anfractibus $5\frac{1}{2}$ convexiusculis, ultimo ad peripheriam filoso-carinato, basi planiuscula; apertura obliqua?, quadrata, longitudine latitudinem æquante, peristomate tenui, recto, margine columellari verticali, longe vix expansiusculo.

Diam. 2, long. 3 mill.

Habitat in valle Rungun, prope Darjiling, rarissime occurs.

A single dead specimen occurred to Mr. W. T. Blanford. This minute shell is of a type allied to the last-described species in form, but is very differently sculptured. Its more pointed, not papillate apex, and the absence of costulation at somewhat remote intervals, and of a marginate suture, through so many whorls, prove that it is not the young of *macropleuris*.